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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/933,316	08/20/2001	Stephen C Porter	29985/01-185	7064
4743	4743 7590 06/17/2004		EXAMINER	
MARSHALL, GERSTEIN & BORUN LLP			SHARAREH, SHAHNAM J	
6300 SEARS TOWER 233 S. WACKER DRIVE CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			1617	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/933,316	PORTER, STEPHEN C	
	Office Action Summary	Examiner	Art Unit	
		Shahnam Sharareh	1617	
Dariad 6	The MAILING DATE of this communication a	ppears on the cover sheet with t	he correspondence address	
THE - External control	IORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a round part of the reply is specified above, the maximum statutory period returned to reply within the set or extended period for reply with, by static reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 136(a). In no event, however, may a reply leading the statutory minimum of thirty (30 by will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND.	be firmely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status				
	, —	nis action is non-final. vance except for formal matters,		
Disposit	ion of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) 1-5,7-11 and 15-41 is/are pending if 4a) Of the above claim(s) 29-37 is/are withdred claim(s) is/are allowed. Claim(s) 1-5,7-11,15-21,23-28 and 38-41 is/second claim(s) 39-40 is/are objected to. Claim(s) are subject to restriction and	awn from consideration. are rejected.		
Applicat	ion Papers			
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correspond to the oath or declaration is objected to by the file.	ccepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Copies of the priority documents. 3. Copies of the certified copies of the priority documents. See the attached detailed Office action for a list	nts have been received. Ints have been received in Applic Onty documents have been received. August (PCT Rule 17.2(a)).	cation No eived in this National Stage	
Attachment	t(s)			
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>3/1/2004</u> .	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	ary (PTO-413) Il Date \$49/04 al Patent Application (PTO-152)	

DETAILED ACTION

1. The Office Action issued on June 6, 2004 is hereby revoked because it included pages 9-11 in error. Accordingly, the instant Office Action is issued as a replacement to the June 6th Office Action.

2. Amendment filed on March 01, 2004 has been entered. Claims 1-5, 7-11, 15-28, 38-41 read on the elected species and is under consideration. Claims 29-37 are withdrawn from further consideration for the reasons set forth in Paper Nos. 3, 5-6.

Any rejection that is not addressed in this Office Action is considered obviated in view of the Amendments or Arguments presented.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1-5, 7-11, 15-21, 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krall et al WO 00/44287 (WO '287) in view of Evans US Patent 5,702,361.

Applicant's arguments with respect to this rejection filed on March 01, 2004 have been fully considered but they are not persuasive.

4. Applicant argues that Examiner's reliance on In re Kerkhoven, 205, USPQ 1069 (CCPA 198) ("Kerkhoven") to establish *prima facia* obviousness, is misplaced because the facts in Kerkhoven are distinguishable. Applicant goes on to say that Kerkhoven involved mixing of two known detergents which were known. Applicant then argues that one may not combine the compositions of the cited references, because the cited compositions of Evans work differently than those cited in WO '287. (see arguments at page 12).

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5. As the initial matter, Examiner responds that contrary to Applicant's assertion Kerkhoven is a case on point, as it sets forth obvious, the combining of two agents that are known in the art to be used for the same purpose. Kerkhoven, at 1072 citing In re Susi, 169 USPQ 423, 426 (CCPA 1971); In re Crockett, 126 USPQ 186, 188 (CCPA 1960). Accordingly, the legal test described in Kerkhoven focuses on the issue of combining agents that are known in the art and provide the same effects for the reasons of providing or improving the same effect as each would have provided. Nowhere in Kerkhoven or its precedent cases, does the legal test exploit mechanism of action of the ingredients involved in the combination. Therefore, applicant's arguments based on such notion are flawed. Examiner thus maintains the rejection of record and the reasoning based on Kerkhoven.

- 6. Even assuming *arguendo*, that mechanism of Action had played a role in forming the obviousness rejection in Kerkhoven. Still, Examiner's rejection is proper because contrary to Applicant's assertion, in Kerkhoven too, the detergent's used for the combination provided different mode of operation. In Kerkhoven, the Ruff reference employed anionic detergents and nonionic detergents. At the outset, the Court held that even combining such ingredients with the primary references that are not of such ingredients were ultimately an obvious modification in the art. Surely, at least the mechanism of action of an anionic detergent in Kerkhoven was not the same as the nonionic detergent employed therein. Therefore, contrary to applicant's contention, the fact that the compositions of Evans and WO '287 may work in different ways does not impart the instant compositions patentable over the cited references.
- 7. Moreover, Applicant has selectively ignored the level of ordinary skill in the art of embolizing compositions and their knowledge for optimizing the amounts of suitable solvent as

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the carrier system of choice. Nowhere in Evans or even in WO '287 discourages the use of a solvent system with their polymeric or prepolymeric compositions. In fact, Wo '287 embraces the use of suitable biocompatible solvents for proper delivery of embolic agents. Such solvents include for example lower alcohols and also act as delivery carriers. (see Evans at col 6, lines 45-50). Also see WO '287 wherein, for example, at pages 39-40, the teaching of US Patent 5,925,683 is incorporated in WO '287. Further WO '287 embraces the use of embolizing agents of the art in conjunction with embolizing compositions (i.e. compositions of Evans). (see page 40, lines 10-15). Therefore, one of ordinary skill in possession of such art would have been able to ascertain the type and amount of solvents useful when combining the teachings of Evans with WO '287.

- 8. Finally, the scope of the instant claims does not in any way exclude the use of a solvent such as those taught by Evans. So Applicant's arguments on such basis are not commensurate with the scope of the claims and thus, are moot.
- 9. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. *See* In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). Since the cited references are within the same filed of endeavor, combining their teachings are not based on hindsight reasoning, rather prima facia obviousness.

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- 10. Here, both Evans and WO '287 teach administration of their composition into blood, they teach embolizing prepolymeric or polymeric composition and finally, achieve suitable in vivo embolization at a site of interest. Thus, combining their teachings would have been obvious.
- 11. The teachings of Krall WO '287 are described above. Krall fails to employ non-cyanoacrylate rheology modifying agents that are of polymeric material in amounts higher than 0% (as recited in claim 11) and/or have a specific molecular weight (as recited in claims 7-8).
- 12. Claims 1-3, 9-10, 15-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krall et al WO 00/44287 (WO '287) in view of Na et al US Patent 5,447,710.
- 13. Applicant has not substantially presented any arguments different than those responded above. Therefore, the claims are deemed obvious over the cited prior art and thus stand rejected for the reasons of record.
- 14. Claims 1-3, 9-10, 15-21, 23-28 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Krall et al WO 00/44287 (WO '287) in view of Krall US Patent 6,037,366 (US '366) for the reasons of record. Applicant has not presented any other arguments aside the ones that are addressed above.

Claim Objections

Claims 39-40 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The parent claim 3 requires the composition to further comprise a second non-cyanoacrylate rheology-modifying agent comprising an inorganic particulate material. The dependent claims 39-40 allow such material to exist in amounts of about 0%.

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Therefore, claims 39-40 do not require existence of a second non-cyanoacrylate rheology and fails to further limit the parent claim.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

15. Claims 1, 3-5, 7-11, 15-16, 19, 26-27, 30, 38-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Hechenberger et al US Patent 4,997,861.

Hechenberger discloses all limitations of the instant claims. Hechenberger discloses a composition comprising monomeric alkyl caynaoacrylates that satisfies the instant matrix forming component, a poly acrylate that satisfies the instant element of polymeric non-cyanoacyrlate rheology agent, and a stabilizer (see abstract; col 3, lines 29-col 4, line 40; claim 5). The prior art compositions also contain fumed silica in amounts of about 2-8% which satisfies the elements of claims 3, 37-41. The viscosity of Hechenberger's compositions falls within the instantly claimed ranges. (see col 2, lines 59-64). Accordingly, Hechenberger meets all elements of the instant claims.

Conclusion

16. No claims are allowed.

Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 3/1/2004 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 609(B)(2)(i). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

RUSSELL TRAVERS
PRIMARY EXAMINEP
GROUP 1200